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Material Safety Data Sheet

Safety Data Sheet according to Directive 2001/58/EC

1. IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND OF THE COMPANY/UNDERTAKING

NanoQ-30L resin shipped in 20% Ethanol, and package sizes from 30 mL up to 100 L.

Product Description
Styrene and divinylbenzene copolymer

Product Use Description
Chromatographic media

Supplier
Suzhou NanoMicro Technology Co., Ltd.
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2. HAZARDS IDENTIFICATION

Inhalation
Irritation of nose, throat, and lungs.

Eye Contact
Irritation

Skin Contact
Irritation

3. COMPOSITION/INFORMATION ON INGREDIENTS

Number	Material	Weight (%)
1	Styrene and divinylbenzene copolymer	16-18
2	Water	68-70
3	Ethanol	13-15

4. FIRST AID MEASURES

Inhalation
Immediately move subject to fresh air, if breathing is difficult, give oxygen, then get prompt medical attention.

Eye Contact
Immediately rinse with plenty of water. If eye irritation persists, consult a specialist.

Skin Contact
Wash off with soap and water. If skin irritation persists, call a physician.

5. FIRE-FIGHTING MEASURES

Suitable Extinguishing Media
Use the following extinguishing media when fighting fires involving this material:
Water spray
Foam
Carbon dioxide (CO_2)
Dry chemical

Special Protective Equipment for Fire-fighters
In the event of fire, wear self-contained breathing apparatus and avoid breathing smoke.

6. ACCIDENTAL RELEASE MEASURES

Personal Precautions

Appropriate protective equipment must be worn when handling a spill of this material. See SECTION 8, Exposure Controls/Personal Protection, for recommendations. If exposed to material during clean-up operations, see ECTION 4, First Aid Measures, for actions to follow.

Methods for Cleaning Up

Keep spectators away.
Floor may be slippery, use care to avoid falling.
Transfer spilled material to suitable containers for recovery or disposal.

7. HANDLING AND STORAGE

Handling

Avoid repeated freeze-thaw cycles; beads may fracture. If frozen, thaw at room temperature.

Storage

Store in a well ventilated area. Store away from oxidant and reductant. Tightly closed when not in use.

Further Information:

CAUTION: Do not pack column with dry ion exchange resins. Dry beads expand when wetted; this expansion can cause glass column to shatter.

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Exposure Limits

Exposure limits are listed below if they exist.

Eye Protection

Safety glasses

Hand Protection

Wear suitable gloves.

Respiratory Protection

No personal respiratory protective equipment normally required.

Protective Measures

Facilities storing or utilizing this material should be equipped with an eyewash facility.

Engineering Measures

None required under normal operating conditions.

9. PHYSICAL AND CHEMICAL PROPERTIES

Physical state	Bead slurry
Colour	White or yellowish white
Odour	Alcohol odor
pH	6 to 8
Boiling point/range	78°C/172°F
Melting point/range	-6°C/21°F
Ignition temperature	423 °C
Vapour pressure	19.3 mm Hg (20°C/68°F)
Relative vapour density **Specific gravity**	0.69(Air=1) 0.98(Water=1)
Water solubility	Insoluble
Viscosity, dynamic	Not applicable
Evaporation rate	>1

NOTE: The physical data presented above are typical values and should not be construed as a specification.

10. STABILITY AND REACTIVITY

Hazardous Reactions
Stable under normal conditions. However, avoid contact with ignition sources.

Materials To Avoid
Acids, acid chlorides, alkali metals, oxidizing agents, reducing agents, organic peroxides.

Hazardous Decomposition Products
Thermal decomposition may yield the following: monomer vapors.

Polymerization
Product will not undergo polymerization.

11. TOXICOLOGICAL INFORMATION

No data are available for this material. The information shown is based on profiles of compositionally similar materials.

Acute Oral Toxicity
LD50 rat >5.000 mg/kg

Acute Dermal Toxicity
LD50 rabbit >5.000 mg/kg

12. ECOLOGICAL INFORMATION

Limited effects are expected from exposure of the environmental compartments by insoluble plastic beads of large diameter (300 to 1200 microns).

13. DISPOSAL CONSIDERATIONS

Disposal
Unused material may be incinerated or landfilled in facilities meeting local, state, and federal regulations.

Contaminated Packaging
Empty containers should be taken to local recyclers for disposal. Refer to applicable federal, state, and local regulations.

European Waste Catalogue (94/3 EC)
The definitive assignment of this material to the appropriate EWC group and thus its proper EWC code will depend on the use that is made of this material. Contact waste disposal services.

14. TRANSPORT INFORMATION

Classification for ROAD and Rail Transport (ADR/RID)
Not regulated (Not dangerous for transport)

Classification for SEA Transport (IMO-IMDG)
Not regulated (Not dangerous for transport)

Classification for AIR Transport (IATA/ICAO)
Not regulated (Not dangerous for transport)

Transportation classifications may vary by container volume and may be influenced by regional or country variations in regulations.

15. REGULATORY INFORMATION

Label
Classification and labeling have been performed according to EU directives 67/548/EEC and 99/45/EC including amendments (2001/60/EC and 2006/8/EC).

Hazard Symbol and Indication of Danger
This product is considered hazardous according to the OSHA Hazard Communication Standard (29CFR 1910.1200).

EU. EINECS (EINECS)

This product satisfies all the requirements of the European Inventory of Existing Chemical Substances (EINECS).

US. Toxic Substances Control Act (TSCA)

All components of this product are in compliance with the inventory listing requirements of the U.S. Toxic Substances Control Act (TSCA) Chemical Substance Inventory.

16. OTHER INFORMATION

Legend

ACGIH	American Conference of Governmental Industrial Hygienists
BAc	Butyl acetate
OSHA	Occupational Safety and Health Administration
PEL	Permissible Exposure Limit
STEL	Short Term Exposure Limit (STEL):
TLV	Threshold Limit Value
TWA	Time Weighted Average (TWA):
|	Bar denotes a revision from prior MSDS.

The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text.

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